Only AFTERBURNER vs THUNDERBLADE - our verdict page 12

COMPUTER

Comput



• Has this man paid £6m to IBM?

Secret Konix console plans leaked

REVEALED

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he dream comes true — page 39



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EXCLUSIVE



Charts 4 · Letters 11 · Questionnaire 23 · Entertainment 25-33 · Beginners 35 · Tips 36 · Columns 46 · PSsstl 62

RISC IT!

Accept last week fired a warning shot

That will apply until the pere MSC

They have been able to see how to We clidn't force them to sign," said an



Coin-op Freescape forescene the innovative presents

kicredible experi Del euce.

EXPRESS

New machine will have 3-inch drive

KONIX CONSOLE LIN TO EX-SINCLAIR TEA

preplationry Place micro. New

. Helioway: britated by leaks and reports

officeed non observer. Widi, on not really, that the Konix PAME: Internally it is known as Significant, though this is out thely to be its commercial name.

Konix: the leaked spec DESCRIPTION FIRST LAMBOTE Due to be appreciated in February or March, if

DESIGN: "Can you magine a console bride a bruston"

Would you credit it? They were canable because the

Judge Tim Lawrence describe The two men and their wives cards:

is possible to close or copy those

Cliff hits the fire button

PC prices fall as chip prospects brighten

Talking Japanese

faws to increased demand arrows



hardware manufacturers have been

ROW HITS ATARI SHOW

BORLAND

Encland appears to have hit the classic ing to C3.3 million for the first six

puter market. They include Sinclair,

COMPUTER

I'm Big, Matey

marrow chins for months now the tont. | And because you're IBM, all

Then, because there are no awful

page 4 - suggest you do. Coreputer

Budget rethink

Ear two water make all the soldance

Could II be that the demise of full-

Inc. Terry Turner - PUBLISHER Gree legham

Shoot from the Lip.

next big thing?

AMSTRAD'S ROYALT Magnetic polic disks will be the fature of

on the custom for his new MeXT compat-

SECRET

Express: "We have never con . Sugar £6 million pay out

The race against crime

for those marries more than the petmirro is disturbed. Dec simply has to

A new image

Filofax deluge Filolax toting hightlyers are fycing a

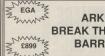
The organizer program itself is a

depending on how many cerus bits

Declaring war on sexist



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NETWORK NIGHTMARE

FOR SAGE



. David Darling: another gold each for these

paying the extra because 'the games Day and Encest's 61 occurs has often being regarded as the poor remain at the cripinal price but any new Codemisters £1.99 games are

 Move into from Sage on 091 284 7077 Joan of Archimedes

Beam me over a prawn cocktail

Computational malters could be all the

ITS Gold will be making its first sortio

The money will be very useful " rows. mented marketing manager Bruce Smart meet two years has been predominantly hased on chean names which sell

exceptionally well to the vousper gamers. 'Our games deserve to be that its titles now cost CB-CR. And

Appalling PR of our time Homeau poblisher Galerna

and Arriga is, according to Nortzons, based on a 17th some of the game before to many the hobbly

Driving forces

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Deupac Amiga has always been the popular choice for assembly language programming on your production of the programming on your were a few first fine of the first fine of the distribution of the distributi

The Editor - true integration

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The Assembler - no waiting zone GenAM was always fast but the all-new algorithms means it's

even faster, particularly on larger programs. It handless multihunk code, 127-character significant labels, local labels, improved macros & conditionals, generates directly executable, or linkable code, and a stand-alone version is included so you can use a CLL a bullet file or on alternative action.

The Debugger - kills bugs, dead How many times do you write a completely bug-free program?

Trying to defoug a program by fooking at garn raimbens is what forms development systems lower you to du. We trebude a dissessment systems lower you to du. We trebude a dissessment for the system of the system of

ideal for Beginners & Enthusiast

The editor is fast and easy to use, you can assemble from memory from convenience or memory then execute it repeated by to try your ideas out, all without a flak access. Press a key and you're straight into the debugger, you can even ideal preparem assembled to memory behaping to the convenience of the convenience o

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Step through assembly errors	Ý	N	N	Y
Automatic backups	N	Y	N	****
Integrated assembler	Y	N	Y	Y
Integrated debugger	N	N	Ÿ	Y
Macro parameters	10	10	9	38 Y Y
Multi-line macro calls	N	N	N	Y
Conditional assembly	Υ	Y	Y	Y
Case fleetble	Ÿ	Y	N	Y
Local labels	N	Y	N	Y
Executable, relocatable code	YYX	N	Ÿ	******
Unkable code	Y	Y	N	Y
Multi-SECTIONs	N	Ý	N	Y
INCLUDE binary files	N	N	N	Y
Assemble to memory	N	N	Y	Y
Stand-alone assembler	Y	Y	N	Y
Section types	Y	N	N	Y
Debugger supplied	Y	N	Y	*********
Disassembler	Ÿ	N	Y	Y
Multi-window	N	n/a	N	Y
Source-code viewing	N	15/a	Y	Y
Single-step	7 7 7 7 7	n/a	Ý	Y
Breakpoints	Y	n/a	Y	Y
Conditional breakpoints	N	n/a	N	Y
Pull expression evaluator	N.	15/A	N	Y.
Multi-screen	Y	n/a	N	Y
Break into running programs	Ý	D/8.	N	Υ.
Disassemble to duk	N	n/a	N	Y
Example program source code	Y	Y	N	Y
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Hardware Advantages
The Spectrum is one of the cheapest micros account.

. S2Ek of RAM.

Hardware Disadvantages



 Six graphics hardware helifoles for spotest or excelling - sell ways has in conclute these functions then showing down their execution speed.
 Basely solvents sevent expeliity
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MOTE socked in one etandered.
 Software Advantages
 One of the harpest pointions of games software for any miles.
 One of the harpest pointions of games software for any miles.
 One of the harpest pointing - snapped them approximately I on the out to a harper beauty for out to be point of miles.

Software Disadvantages

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* Lack of indicated graphics hasheriner givens containing to the
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What does the future hold?

Begin to increasing populative of 15-bit madelines, the figure and 20 across the large support from the games reference on pastes, and its too popular top a many command.— that as 15-bit substruct insupports, the Spectrum is flooding at licenscaling 5-bit and the second output of the second output outp

VATIO IS IL IOF?
The Spectrum is still a great Bible machine for End-thine beyons with a limited budget. The games surbware is these and therein plenty of it, most of it within the limits of hide product second

Commodore 6

PACKAGE 1 Hollywood PRCs 4 (1979)
What you get DiefC 1000 tope deck leyelists,
adjection of fear/TV users software
PACKAGE 2 Home Entertainment Pack 4 (1999)
What you get DSMC 1000 tope deck, leyelist
Bash personal states. Variable electronic lonyboard bandfeld software

ardware Advantages

The CH is the most popular mine in the world, with over those million union sold worldwide.
 Tope deak low-linkwide is peckage.
 Dedicated graphics landware inclinion for sprine and ecoding.

Hardware Disadvantages

* flage data is very abov - formulately adheses companies on
employ "State Landers", which decreases the time specif fooding

* Edit drive is reposely reserved to large. "State Landers" between self autory. "State Landers" between self autory. That has Landers' between the specific politicals, (Smith).

* Lambed colored maps - examiness of 4 colores widos any fine plant focusion out of a byteries of 18.

base to be purchased to order to sain one-Commodern printers.

Software Advantages

- Epositions autocolor of software - mality quitters and program-

Software Disadvantages

*AND spokes is the word on any scool.

*Comes software is small for idease than Specially consideration consideration software is small for idease than Specially consideration.

*Complete Comments measure count govern have to be midd-I saided from program in Control line without process or complete in the wind program in Control line wind

What does the future hold?

As with the other 8-bits, the C64 is starting to look a bit dated equilar; the 64-bit indows, but it can other will more than baild own. It may well be the best supported 8-bit in 1988-90.

Who is it for?

For more experimenent usage, the CSE easily surpasses the 8-bit, composition in terms of software and bardware capabilities. So long as you don't want to post it in much section use, the CSE is not a section use, the CSE is long as you don't want to put it in much section use, the CSE is long as you don't want to put it is much section use, the CSE is long as you don't want to put it is much section use, the CSE is long as you don't want to be a section use, the CSE is long as you can be a section use, the CSE is long as you can be a section use, the CSE is long as you can be a section use, the CSE is long as you don't want to be a section use, the CSE is long as you can be a section use.

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Hardware Advantages

- the Austral CP categor contain the biggest election of

Rind's to tage dock or dath drive on standard.
 CINC GEZE has 1986 of RAM.
 ETC GEZE has 1986 of RAM.
 ETC drive in that and million.
 Resid both control renger - standard.
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 Good mappe of expension ports the publisher, clink drives, etc.
 Finant in his behaviour's count for more deconnation.

Piness Bibli Replant - good for word processing.
 Hardware Disadvantages

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 Count only is hardware facilities for sprine or exceeding.



Software Advantages

• Dateside oboxy pictate can gredient the work colorable bits reviewed with a suck convertly in the interval companies.

• FALCE explaint in second early to the ERC Pix in the 6-bit Shift.

• RADIC explaint in second early to the ERC Pix in the 6-bit Shift.

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• Radicate explaint of pagemen and Radicates utilizes. Editory but secondary a guesse selection to the Experience of Old.

• Radicate explaint personance manifolds to p. Parterol.

Software Disadvantages

* Many software employees new declara CR sides of their prodests to be too leve, and or their produces of their prodcets to be too leve, and or their promotion only major table when the
OH4 and Spectrum is bith CTV.

* Lack of declarating depolator handware produces more profitical
problems than their elevence in the Spectrum - vold CPC proses
raising quark from than their CH4 and Spectrum produces.

What does the future hold? or as a bit audition section in this survey, the O'C as it one likely to lose own or whom a region over this not down years with the Spectrum and C'H monetaig principly because of appeticity is trained of Sult paners saled fujures. However, meditine rill has a very logal sant hom, and some one-paner empeasion position continued logs for four, support.

Who is it for?

aid - out of any of the marine surveyed, but this is consistent seed by their estudiating lack of support them genes software expenses. Signess are your make selection you'll do before dwabore. But if you want a good water particupe on which you enord process, prospess and barv a lot of fac, it's not a bad bet.

PROS AND CONS

Atari ST



* Fart Historica 68000 55-bit CPU . MET cort as standard.

* Built-in, easy to use, WBIF environment ST versions of games thise far superior to the 8-bit versions, in

. Seftware in very expension - cames tides rance from \$10 to \$25.

The ST is a wooderful combination of high-conver and low price. It

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askyr, Cemet and Books. Here follow the edited low-ligh Std ALL the advice be received was awful. with our margin comments.	tex together	of all the things that you're doing manually at the morrer's that are a total drag and you want a computer to do.	Manufich.
BOOTS 16-bit means the edges are rounded	ed off		h lat there
of counteen characters are rounded off because it's twice as defined want to the property are absolutely useed. It repairs it's twice the		you can puess which is going to lest longest — at the and of the day they both take you how A to 0. Out in 5 years time IBM will still be going strong and you'll be able to go up that — with markand you go what you pay for — with IBM you can resell for 40% of the original value.	
apability of any & bit machine really - twice as last, more memory, are there any plans to have anything more educational on the interested.		So are Arestrods unreliable! No, they're very reliable – but you get what you pay for. On the whole – considering the amount they sell – they're very reliable.	
here's a limit to how far it can go - it'll have to use the jopoids and the says. Utilized Nintendo meent a keyboard to go into the soutlick then they	Visit home	DIXONS "Business software on oa	ssette
vey you could stone what you write.			
flow many colours does it have? think there's 126 - just basic shados of your basic colours.	Dr. mille Wer.	cough. When you load a game system in it only takes a 1/4 of mornory so the rest in up to you.	
LASKY'S "You can tip cups of coffee on	them*	What's the benefit of baving a disk chine? It's taster and it's more of a world standard – most word processors use discs, IBM use it for future expansion disk is it!	
is there a list of software for the Commodore 64 then? fee, thesi's loads - and then you can an life 20 games on it do - you can use any Commodore games as long as they're lover than 64. Affair's than eart for on the back?	bridg utterly stong quart born the first fiver worth	Would you necessword a PCW for a child? Not really, they'd just be loo district by the keyboard – whereas on the Rus 2 all the kincloss are simple.	Bildiny Sectors.
That's so you can plug in a 64-bit expansion. On the Arriga here, what do you use the mouse for?	Aveste	Does the Plac 2 have many colours than? Chiyosi there's 16 shades of colours — so if you heak it into your Th' at home — you'll get the full scope of colours.	The AA Shi Dark of Orients, ris
it's just for graphic designs, broad sheets, if you want to change to a cer- lan page say.	EL VALUE : ENT DE UNIDENSITY	Can you get neere sorious software for the Plus 2 then? It's limited because casselles for business systems aren't that readily.	has
What's mate-tasking then? High-speed multitasking is just your actual loading up of software on the disk drive. It actually loads quicker.	E) ACTIVE IS SO HELSEN	available. But there are some are there? On yes shadelets.	
Can you get bigger disks? Rs, then's the 5 lock ones for business.		COMET "You can't link it to a tele	
3e they centain more? riss, c all depends – they will hold a lot more.	Month has month had	Are the Assistrad CPCs: good machines? Yes, you can get everything for them - you can add on to them, you can	QAT supp
So is it better to buy a meetiter then? Well, if you already have a colour TV you can just say run the video on Channel 12 and run the computer on Channel 11. You get a better		expand them so their full potential – they're not just there you can expand them on for ever more in time.	Box.orde part orde
reception and clearer graphics. But you can buy a colour menitor if you want to – just for the better system.		Haw can you expand there? Dish gives, second dish drives, peinters – to its full potential – it's not just a computer – you can take it much further than that.	By spendi Rose nor Riveri
Go Shry (Commissiones) go wrong very office? Very , very randy = ext at at		So can you link them up to telephones then? Noting that far ahead, no.	No hard and so?
Can year was business esthware on the Ametrized DPC? Test, you can but. If you want both business and games you need a very- large system first will take both – No the Commodore Amiga – it has a large enough mornory to take business software.		So what's this new Section PC2COT Well, we don't have too much about it — it's just on the market — it's more of a business machine though you can get games for it.	
How issay colours do you need? There's the whole spectrum of colours on a Commodore.		You say it's BIM compatible, what does that mean? Well, you can just transfer IBM programs and run them on this computer - it's a form of software.	007
Are the Commoderns likely to go wrong their? You can so cups of college on them – they're writinity ideal proof.	Wasself Dis of ones and ones of the contract o	Can you run it on a bifly? No, it has to be run onto a monitor – there are the right connections to get to a televisions but with the graphics you'll lose a lot out, it you want to put it onto a normal television.	The PC20 has been designed specificall TV ata.
DIXONS Bulyness Centre - * Amstrads won	er outlan"	is there much difference between the games on this and other Arnotrods then? Chysals, they're much before on this one.	
is it best to go with IBM? Med, it depends how much you want to use it – if you use it if hours a day live days a week – then it'll last five years whereas an Aristrad will have	Anter	Can you regard this one as well? I don't know – it's new to us at the moment.	White a
wom out by then - we're talking build quality here.			

Costicued from provious page

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Sci-fi fame are also catered for with two releases are remote explorer through alies worlds, whilst The Pass-

neis Complex, due on Amicu, St. CS4, CPC and Speccontrolled undersease For Eghter relief, Magic Sytes have not for Puhruary release Tota and Jerry; a two-planer game based on the cartoon series, in which you get in pley the part of the



· Pendan Gulf Inferre on the Amiga mouse - and, due out later this mouth - Minigoif, a four

player crary golf sim featuring teleparter tights flock





. Terrific land (house prices are musivourning) Active Distribution's recent signing of the marketi

to them nicking up the rights to Coktal's Walt Disney Lornor - Augale Sook, Hopefully out by Christman, this arcide advention will allow you to take the role of a number of the film's characters.

The seventies' sournway seary sizzier doesn't feature scene after scene III monitor-mixting maybeen, through -

ENTERTAINMEN



there's only a county of acrossa which could be described as or French. Most of the action takes place in the appropriately steamy climes of Brazil. and set her - a relation believed to feature furious.



18th century super-producing oclosis. And sep., you've a its beels and on the same formats is 20,000 Leagues

the name of the name against. Finally, there's simply to stay alive in the Artise are also

releasing Ringside, from later this month, on the Amiga. This is a world

nd on the Home Fron

OUTLAND Pandora





by against the Titan Sutteeter on your \$1



RAMBO III Ocean

. Looking for laser camons in Soco

CAPTAIN FIZZ BLASTER-TRONS



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for you - it's simply a question of divine through foot

Live and Let Die shifts very last indeed. Far faster than

If you're after a fast, action-packed game and fancy a



Deable Dragen is probably the reest ferrous kickgames in '87, Masterfronic has just completed



· Craneline III corrections **O GAMEPLAY**

The final confrontation is with Rig Willy timself, who

At the other versions should be available shortly, with



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. Without the hype, what are we left with?

Oh Havnes



Feeledist Firs a is another kirk-ernun game - in fact it's not a million miles from System Three's



a camera av



The speties, spundtracks and sound effects perform

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CORRUPTION

Incentive to succeed

Incentive is one of the games software industry's great survivors, having been around for, oh, at least five years.

The seven-person team from Thatley is fronted by 29-year-old Ian Andrew who talked to us about the company's remarkable achievement

Yotal Eclipse is your third release based around the Prescape system. That's been a hig project for a long time now, hasn't it? We've been working on Freescape for over

How did the original idea come about?
When we boiled at what we wanted to do next we decided so do screening different controlling the next so that do not next so the next so that do not next so that do

What's interesting about Prescape in that it started off as a technical challenge but the end result has been to create a feeling of entering a new world because you can go under things, around and ever them -

was that the intention?
That was the exoct infection; to create feeling of being there for the user in fact, once note name for R before R was calle Presecupe was Bang There - you saw it screen image as though, you were in it place you were supposed to be and the decree of incline was provided by the property of the property of the present of the pr

Now, noll one this, we had the first Froscape game Driller which on traver reviews last Automa and many people shi that technically, and from a parceplayer point of view, it was the best thing around find inswitably in got beasten on the Christmas charts by games like Out Rus. How do you feel about the way that the industry is at the moment? Do you resent the marketing foots of your competition?

cell found for vivide dooling (coding in the objects of a company dool which you have midd internation. To get yoursel out of this needs syst have to do do a mannine unions begins as well as internation. To get yoursel out of this need system of the pockaging. The objects of the code of the pockaging of the code of the pockaging out the general code of the code of the pockaging out the general code of the pockaging out the general code of the pockaging of the general code of the pockaging out the general code of the pockaging out the general code of the general code o



· las findaye

I don't resem it ton't cley will always have the number one guess of theyer was easily get leaves which is attemptly accessful in leaves which is attemptly accessful in 9 aboves else and one works guest largery to 8 gas along those less. The opportunities 9 aboves else and one works guest largery to 9 april along these largery to 9 april along the leaves suited to 10 april along the largery to 10 april along the 10 april along the largery to 10 april along the 10 april along the largery to 10 april along the

When might the world see one of the At least 2 years.

You've already talking to manufacturers about it?
Yes, we are but we haven't negotiated anything yet. We want to get Christmas over with because we've very bosy at the

You don't think that the pace of Freezape games iii more suited to home computers? On the 6-bit versions, yes, the speed it goes is more ested to heree computers. But the speed which is possible through dedicated hardware would be 100 times faster. So you can pet in racch more detailed.

When the technical centus behind this? Is

one person's brainchi f people?

besicably me and my brother. I had the and then he joined the company. I so portionally working for business solue and doing things on sadar. He joine o company specifically to tackle the point of deing 3-D.

Me's a programmer? Yes, his programs four computers: 5 Commodore, IBM, Amstrad

No. I do the design, advertising, markets and running the Company and products which as a pain in the cos

entive are now one of a select band of all surviving independent software

Do you think those will always be a place for the smaller independent company? I think to service and be independent you've get to have a specialty which you not very good at and ours in solid 3-D which a bit of the bigger companies ent't do - so were

Tell me about the interactive training. Are you naying you can use Freescape for business use?

The still at the experimental stone. We're talk-

sold of the experimental stage. Where the about interrective consisting for larger or tics whereby they've got say a new inston or base and they went a computserated image so that wend be able we around the base in those dimensable expends to certain situations. That's alisony about it at present.

ee, so it's using Freescape to give a con my a computer model? elt, of whatever they went it for A lot o a business 3-D reclosees don't allow you t alk around in real time or they cost those

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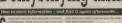


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Network boost

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First, a games from Payers called First Allerk succes of US 15 No. 10 now Ters Same.

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Keth Sw

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